

## Digital Drive Upgrades

### Powerful Solutions for Existing Powerbridge Retrofits

When you need to maximize the reliability and productivity of your manufacturing process, choose GE's digital drive upgrade package. Receive the latest drive technology, including enhanced maintenance and diagnostic tools, without the cost and downtime associated with a total drive replacement. These packages are available for Siltrol Plus, Siltron, Silpac, DC-300, DC-2000 and select third-party drives.

### Key Product Benefits

- Higher return on investment (Drive upgrade approximately 50% of a total drive replacement\*)
- Reduced installation time
- Use existing power cables, power components, AC incoming disconnect, SCR power converter and DC line panel components
- Reduced maintenance costs
- Reduced downtime
- Improved troubleshooting with GE's Control System Toolbox and access to GE OnSite Support<sup>SM</sup> remote monitoring and diagnostic service
- Phased-in retrofits during limited outages
- Improved hardware reliability
- Reduced start-up risk
- Built-in drive simulator
- Greater system flexibility

### Key Product Features

- Improved speed and current regulation
- Simple and accurate tuning with "Auto Tune"
- Drive Simulator Mode for offline learning
- Open communication architecture
- GE's Control System Toolbox
- Real-time trending and one-line diagrams
- User-friendly graphics
- Remote diagnostics capabilities

\*Based on GE internal data



## GE's Control System Toolbox, designed to make drive maintenance fast and simple 21st century technology without the cost and downtime of a total drive replacement

The ability to maintain existing power components, while taking advantage of digital controls, has prompted operations managers to retrofit their existing analog systems with a GE digital drive upgrade.

In North America, manufacturers were faced with finding ways to implement a mechanical modification that would increase their process line's capacity. The solution included the addition of a motor and drive to their existing control system and an overall increase in machine speed.

In the process of working through the details of adding a new section to the existing machine, GE engineers determined that as the speed of the machine increased, the capability limits of the existing analog control system, to properly operate the machine to the desired quality of output were quickly being reached.

GE worked with customers to identify the modifications required to upgrade the drives to a digital system through the integration of GE digital drive upgrades.

A phased upgrade, through a series of planned outages, supported the plant's productivity objectives. The troubleshooting features and ease of use of the GE Toolbox further enhance productivity and reliability of the machine.

## Fully Open Architecture\*

Digital Drive Upgrades are compatible with the following

GE controllers:

- IOS
- DMC
- Intel Master 9070
- DOM2000
- Series 6
- 9030
- PAC Systems™
- Innovation Controllers

\*Utilizing Innovation Series Controller



GE has over 50 years of drives experience, combined with a global field services organization. If you would like more information on how GE's digital drive upgrades can help you reduce the risk and downtime associated with a drive revamp, plus save you money, visit [ge.com/energy](http://ge.com/energy), contact your local GE Energy office, or call (888) GE4-Serv or (540) 378-3280.